

The *CoastSmart*Communities Initiative





CoastSmart Communities Initiative



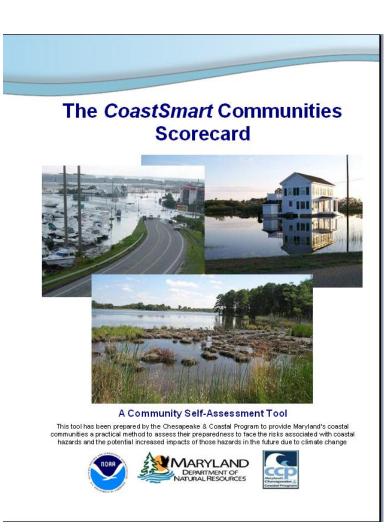
- Develops and provides technical tools and skill-building opportunities to local communities to help incorporate coastal hazards into local policies and programs
 - CoastSmart Communities Scorecard
 - CoastSmart Online Resource Center
 - Maryland's Coastal Atlas
 - Informational factsheets
 - CoastSmart Trainings
- Provides financial support to local communities to help offset the cost of incorporating coastal hazards into planning efforts
 - CoastSmart Communities Competitive Grant Program





CoastSmart Communities Scorecard

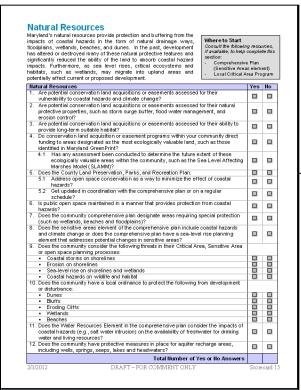
- Intended to help local governments determine how well they are currently positioned to plan for coastal hazard impacts through a simple, practical selfassessment
 - Allows a community to determine what they are doing right and can help identify areas that need more work
 - Provides a mechanism for local officials to identify specific, realistic ways that they can prepare for coastal hazards by integrating them into existing planning, management, and regulatory programs





Each Section's Structure

- Overview
- "Where to Start" box
- Yes or No Questions
- Possible Ratings
 - **CoastSmart**
 - On the Right Track
 - Getting Started
- Recommendations and Resources
 - Ideas for how to incorporate coastal hazards into future planning efforts
 - Information and links to state and federal resources



Recommendations & Resources

Natural buffers may provide the best and most resilient solutions to rising sea levels and coastal hazards Leaving natural systems in place and allowing them the opportunity to migrate, when possible, will offer much better results than attempting to recreate or restore them after a disturbance or in another location. To better plan for how natural resources will transform and be allowed to adapt to climate change, consider the following actions: Adopt policies and land development regulations



- designed to protect natural features such as dunes, bluffs, wetlands, beaches, etc
- Identify opportunities to restore, enhance, or supplement natural protective features
- Adopt land use regulations that require expanded setbacks to protect buffer areas around the margins of natural protective features, such as extending the Critical Area buffers around waterways and wetlands beyond the 100-foot minimum.
- Utilize acquisitions and easements to protect the integrity of natural protective features and support open space conservation to reduce the vulnerability of adjacent infrastructure
- Identify areas with a high conservation potential and strategically and cost-effectively direct protection and restoration activities and funding towards them
- Prioritize and target protection and restoration activities that enhance the ability of coastal ecosystems to provide natural buffers, flood control, storm surge protection, and reduce the vulnerability of coasta

Other Helpful Resources

Maryland GreenPrint

Developed by the State of Maryland, GreenPrint is a web-based tool showing the relative ecological importance of every parcel of land in the State. This map, updated periodically with new information, shows

areas already protected in the state and areas in which Maryland will focus future conservation efforts. These new areas, called Targeted Ecological Areas (TEA's), include large blocks of forests and wetlands, rare species habitats, aquatic biodiversity hotspots and areas important for protecting water quality. They are identified by DNR as the most ecologically valuable areas in the State and are preferred for conservation funding through Stateside Program Open Space. Soon, GreenPrint will begin to include coastal blue infrastructure priorities and areas important for wetland sea level rise adaptation to help inform management decisions. To find out more about the GreenPrint Map and to view its data, visit http://www.greenprint.maryland.gov/



them to migrate into upland areas will provide valuable ecosystem services such as filtering runoff and providing habitat for a number of species. In addition, they will also reduce the impact of many coastal hazards on the land behind them.

Synthesis of Adaptation Options for Coastal Areas
The Climate Ready Estuaries Program within the EPA has
developed this document to provide a brief introduction to key physical impacts of climate change on estuaries and a review of on-the-ground adaptation options available to coastal managers to reduce their systems' vulnerability to climate change impacts. The majority of management goals discussed in this report pertain to the maintenance and restoration of natural systems and each section provides specific examples of measures undertaken by states or localities.

Score card 16

DRAFT - FOR COMMENT ONLY



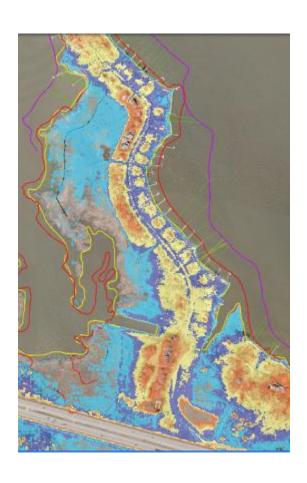


Coastal Atlas Applications

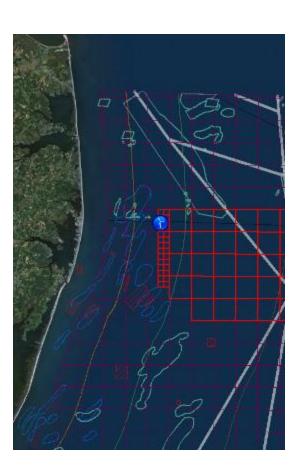
Shorelines

Estuaries

Oceans

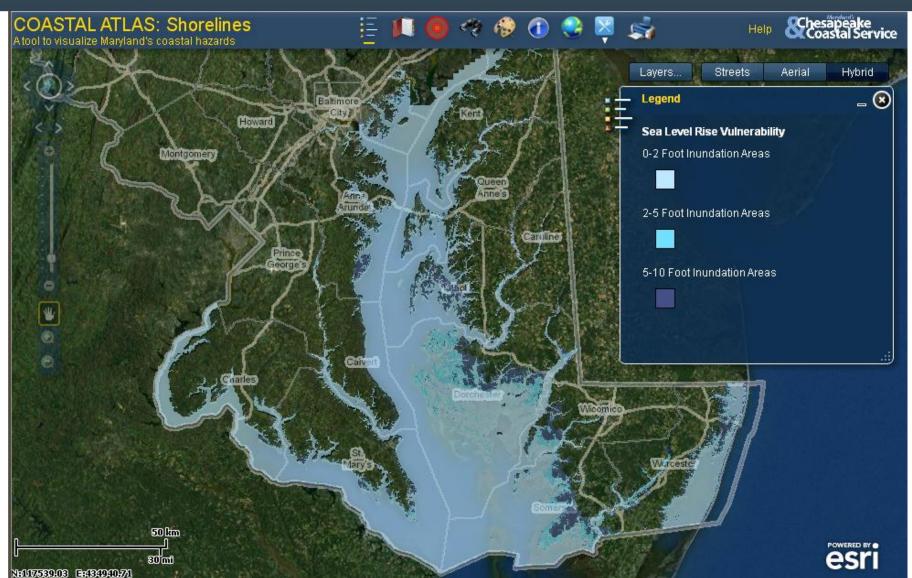








Maryland's Coastal Atlas





CoastSmart Factsheets

In three, comment floors, and determine for each occurred for the medium of the medium occurred for the medium of the medium occurred for the medium of the medium occurred for the medium occurred fo



in partnership with the National Communities Initiative, the Checkprake & Coastal Program is Administration (NOAA), the holding local communities identify Chesepeake & Coastal Program and implement strategies to protect provides financial assistance to local We are property vulnerable to courtain Tuszards and climate change, From sea-level rise response planning. hands-on training and planning tools to financial resources, the Chesapeake communities invest in computer & Coastal Program is ensuring that models, implement land use plans local commonities have the tools that they need to identify and take the

recessary actions to become ready

of climate chance.

adaptive and resilient to the impacts:

The Chesapeoke & Coastal Programis working with the countal towns of Crisfield and Queenstown, the City of Annapolis, as well as Worcertet. Dorchester, Somerset, Caroline and Anna Arundel Counties to put measures in place to protect. somes, business and livelihoods from hurricones, coastal storres and

communities for coastal hazards and Funding has been used to assist local and establish development rades and





Arrest floor revision: \$7,750

What is Presisoned?

Interest to reconstruct Previous and the Control of the Control of

chances the home will be clanaged by stome and finding and help-present it against the

What Are the Scrafts of Presheard!

thoseand protection from fluids and storms. Storm waters can and do not higher than shown on Flood insurance Ross Hape (FRMs).

and holes present in distings from

Examples of savings on MFP1 with freeboard

Maryland's Coastal Atlas

blaryland's Chesapeake's Coastal Program

The Coastal Artas is an online reapping. and planning tool that allows state analyza and explore data for courtal and ocean planning activities.

Maryland's Blue Infrastructure Characterized established environments today face as era of organizational activity. Wind ferms and other energy facilities, commercial foliog, diverse recreational uses, and shipping highways are all competing For one and space. To prouve the protection of Waryland's ordical ocean and estuaring resources, or our the infestructure, and the coastel economies that depend on them, the Coastal Atlas has been developed provide direct access to available data needed for coastal and ocean planning efforts. From finding the best location for renewable energy projects to locating sand resources received for breach replents/ament to helping local communities identify. areas vulnerable to sea level rise and emsion - the Coastal Atlas will assist users in identifying potential conflicts or that they can then be avoided early

"By having a sed understanding of where resources are booked and what they provide to us. the County distribution as a belief protect cores resources and balance the every conversional effects of recentlessed demands they face."

so live, work

Magazali

Better Decision-Making The Coastal Atlan is the result of a collaborative effort among the Maryland Department of Natural Resources, the Maryland Energy Administration, Toyoton University the University of Maryland, The Nature Conservancy and the National Genanic and attemphetic Administration.

The date evoluble through the Courtel Attaciacides physical characteristics, human uses and ecological resources.







CoastSmart Trainings

Step 1

What is at risk?

Begin to understand what coastal flooding, storm surge and sea-level rise could mean in your area

- Learn about the impacts of coastal hazards and how they might change
- Identify how coastal land use planning relates to coastal storm events and hazard reduction
- Begin to understand how coastal hazards could affect your

Step 2

What can you do?

Begin to assess your community's vulnerabilities and identify existing capacities that could be used to address potential issues

- Understand how similar issues are being addressed
- Investigate how the CoastSmart Scorecard and a Vulnerability Assessment could be used as planning tools

Step 3

CoastSmart **Scorecard**

Conduct a Scorecard Assessment to identify what planning capacities are in place and identify what could be developed further

Inundation Mapping

Learn how to conduct a vulnerability assessment for your community to help identify at-risk populations, infrastructure and resources.



community



CoastSmart Communities Initiative Grant Program



REQUEST FOR PROPOSALS

CoastSmart Communities Initiative (CCI) Grant

GRANT SUMMARY

The Chast Sweet Communities Initiative (CII) competitive grant programs will provide financial and tachnical essistance to local governments to promote the incorporation of natural records and or constant management issues into local planning and permitting scholars. CII will be get possible communities that want to reduce their vulnerability to the effects of possible because sees level rice by becoming ready, acaptive and health ent. Coop Sweet, CII sees proposals for chopiets that are aligned to that estate gip objectives of Waryland's Chesapaeka & Coastal Program and foster innovatives coertal management through total initiative, that

- Ensure that coastal communities are protected from coastal hazards and the impacts of climate change (e.g. Coast/in or Communities);
- Work to ensure coasts) and ocean waters meet iving resource and human needs;
 Serve to enhance the protection and management of Ms rylands coasts resources.

WHO: Municipalities and open ties in the coastal zone are eligible to apply for an directive funds. Also yience coastal zone indicates this following counties and the municipal files forbated within Moroester, Some set, Wisomica, Dorchester, Talbot, Carolina Queen Armos, Can Closif, Harford, Beltimore, Beltimore City, Arma Arundel, Prince Georges, Caivert, Charles and 50 Marys.

VMAT: Funding will be proaded on an annual body however successful partitle strips may receive continued support for up to three years in order to achieve the project's outcomes and result in a program changle. Project proposals should target:

Reducing the numerability of the built environment to the effects of seal level rise and/or climate change through the modification of ordinances, codes, plans, and programs.

- Modifying ordinances, codes, plans, and programs to address nonpoint source pollution impacts.
- Developing and implementing mechanisms to meserve and restore natural or cultural resources.

Increating the long term resilience of a community by identifying the potential risk from and preparing for coastal hazards, such as storm surge, shoreline erosion, and coastal flooding, through the modification of ordinances, codes, plant and crograms.

WHEN: Application Deadline: 5 c.m. on Thursday, March 15, 2012.

AMOUNT: Expected grant awards of up to \$75,000 annually peryear.

WHERE: Proposals should be submitted cultine through the Chesaposte & Coestal Programs web-based grants management service, CCP SRANTS ONLINE of http://copgrants.dom.istcandus,

CONTACT: left Allenby

Mary and Department of Natural Resources, Chesspeake and Coestal Service (p) 410.260.87 - 5.60 + 10.260.8729 (e) julien by gridnistate, including

Balancing human demands with conservation of the resources that make Maryland such a unique place to live, work and play Martin G'Malley, Greener

- Provides financial and technical support to municipal and county governments to incorporate coastal hazard and climate change resiliency into local planning and policies
 - Often allows a community to address required planning activities while incorporating coastal hazard considerations
 - Can help increase the resilience of a community and reduce the long-term exposure to coastal hazard risks

Go to http://dnr.maryland.gov/cqp/grants.asp to submit a proposal



